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Figure 1

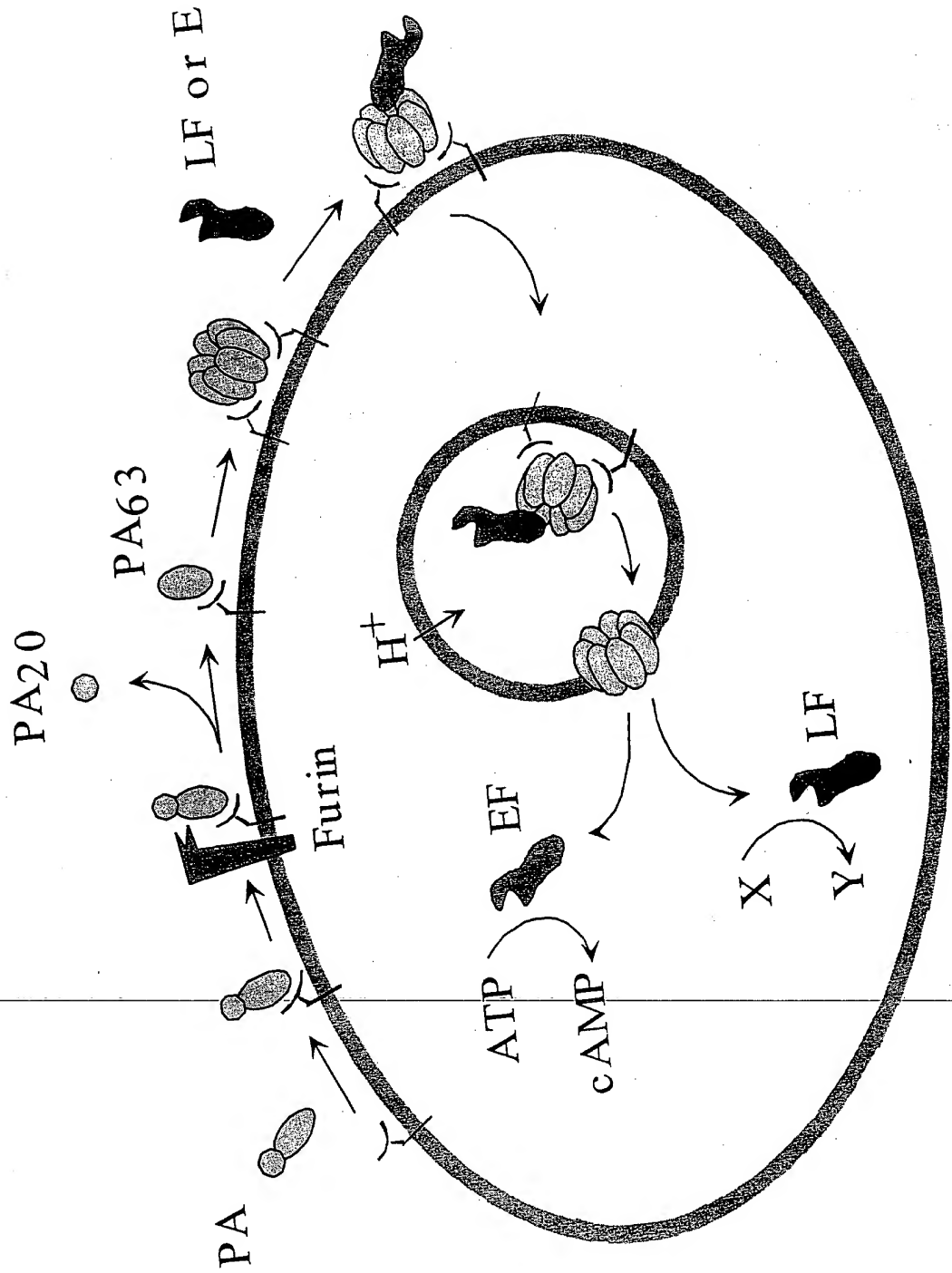
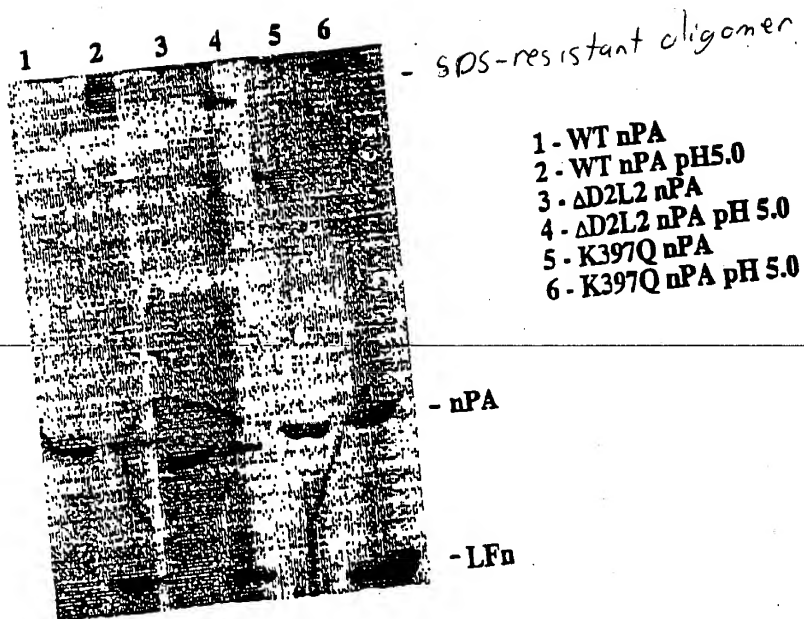
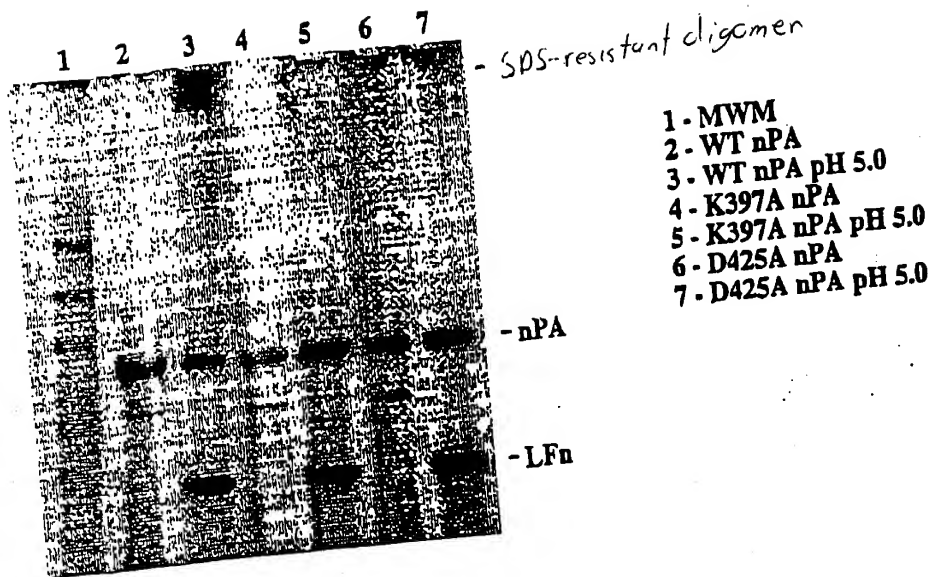
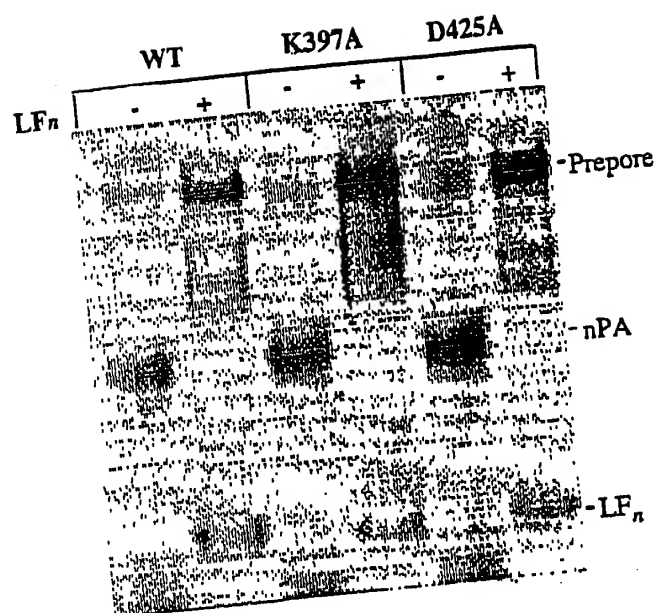


Figure 2A



0049909 050404

Figure 2B



134950-0061560

Figure 3

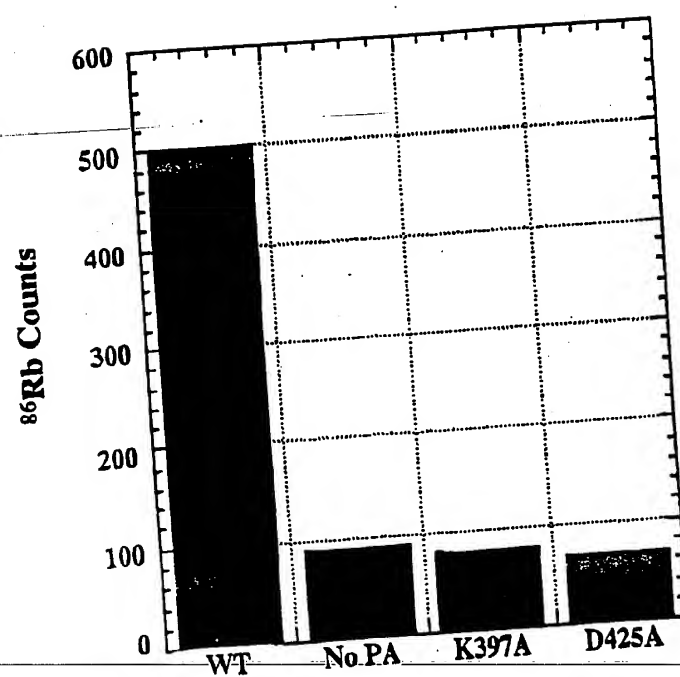
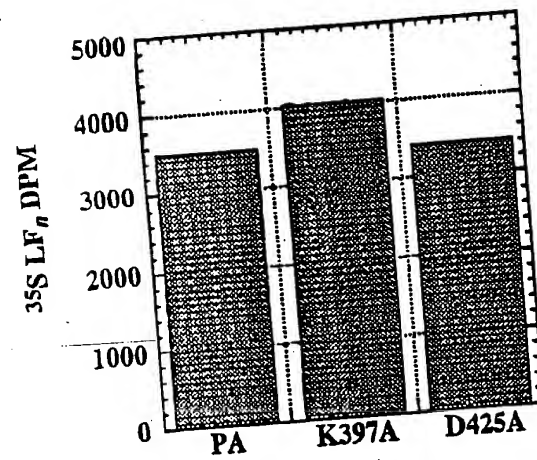


Figure 4

A.

PA Dependent Binding to Cells



B.

PA Dependent Translocation into Cells

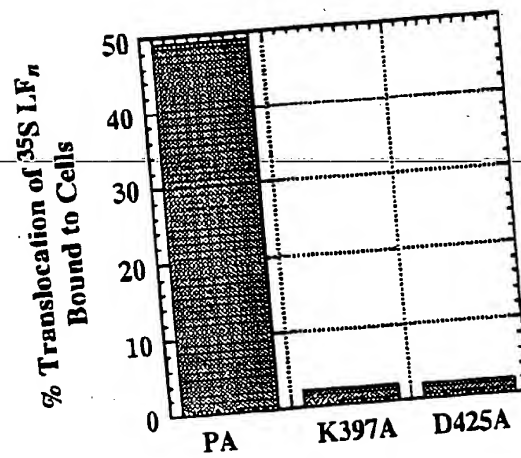


Figure 5.

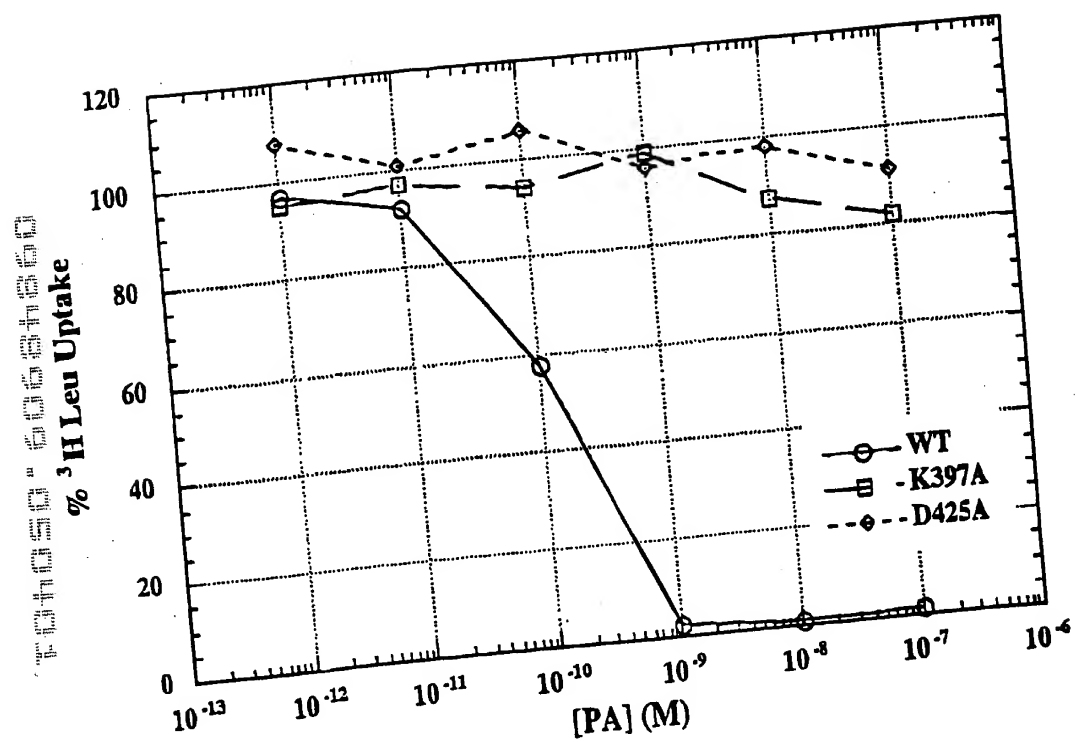
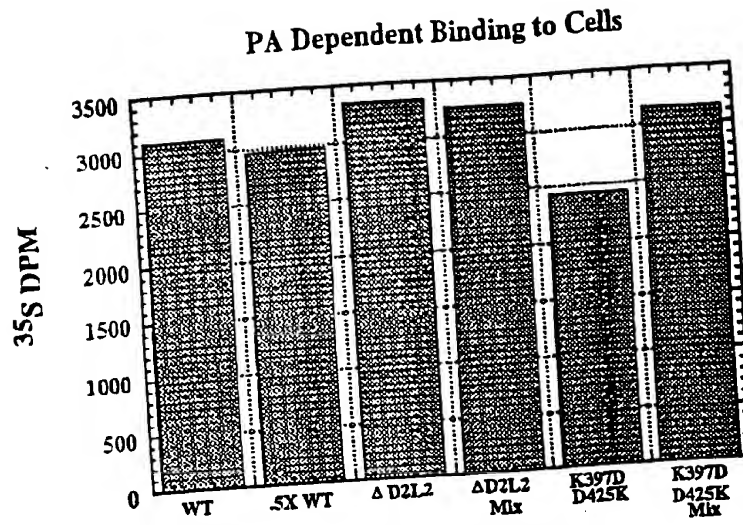


Figure 6

A



B

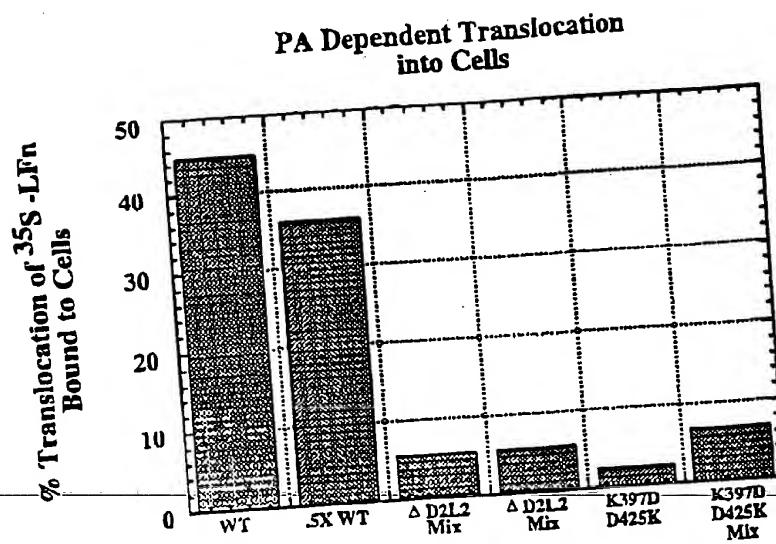


Figure 7

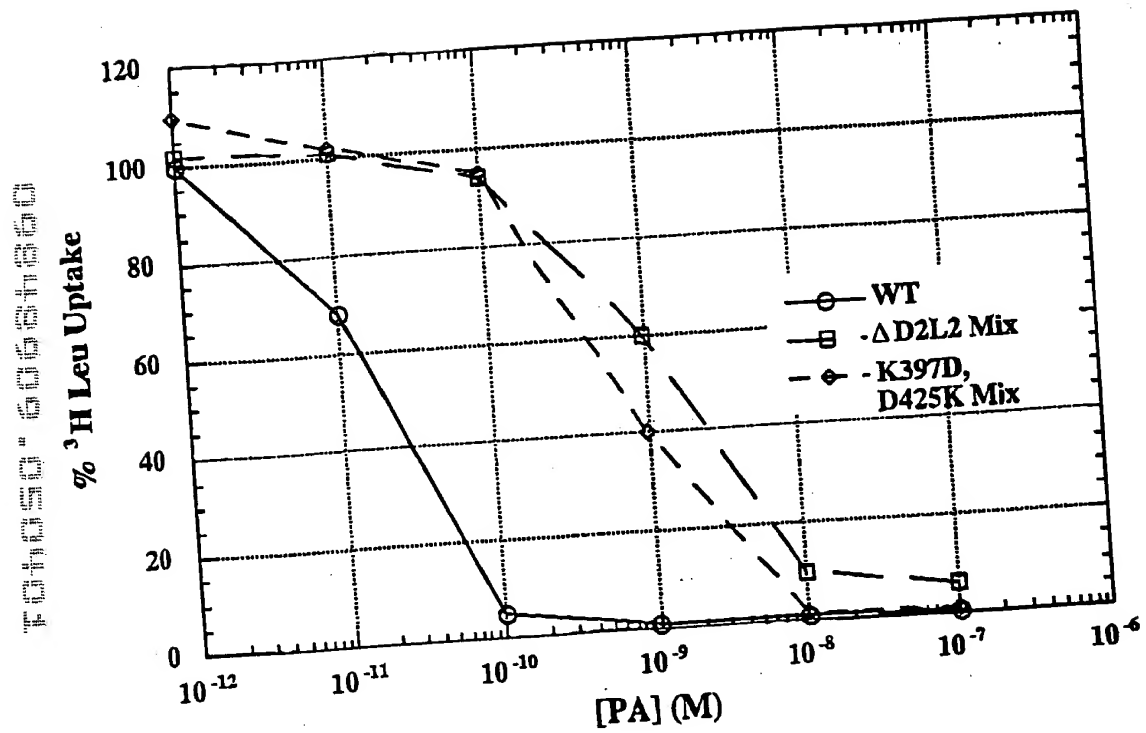


Figure 8

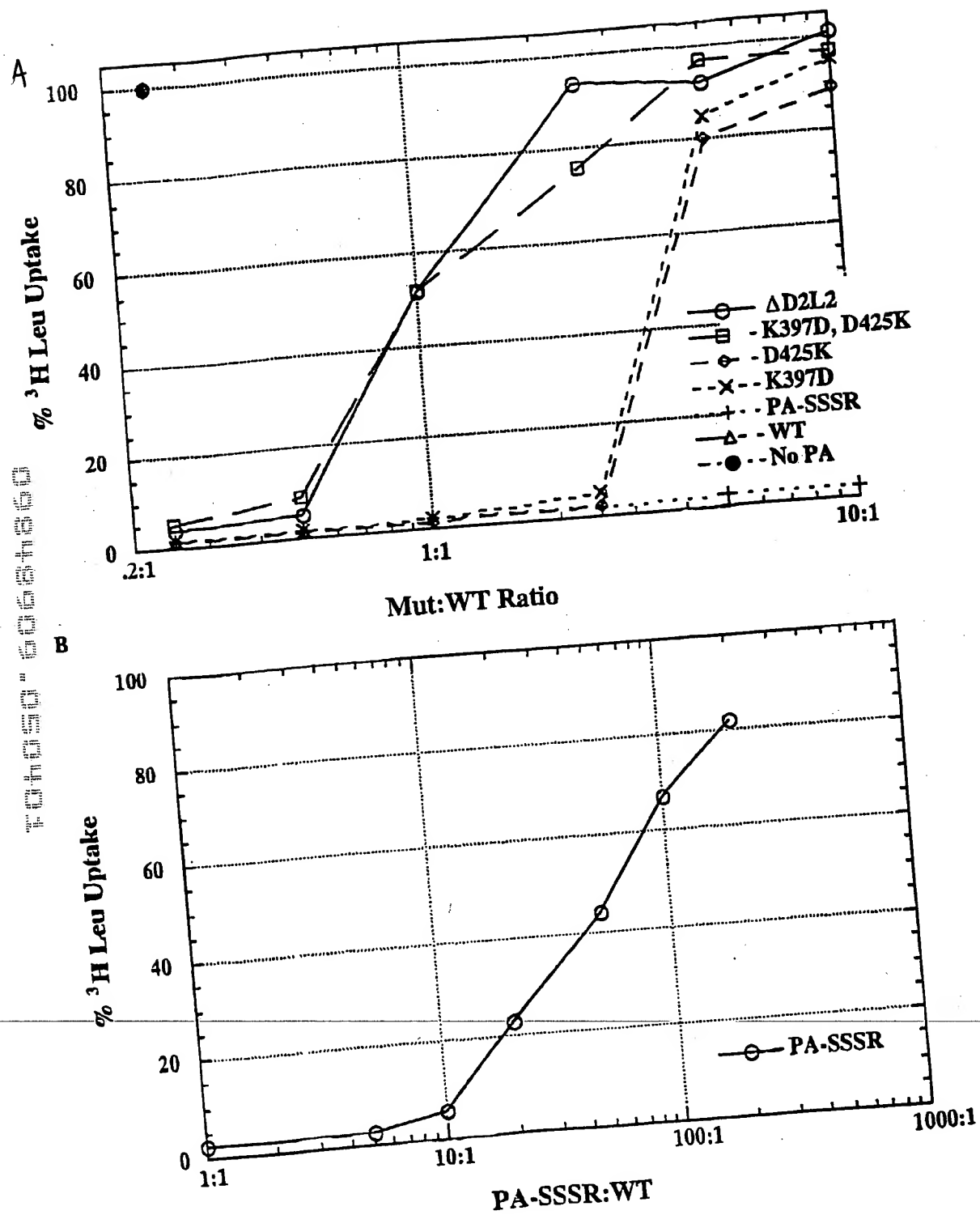


Figure 9

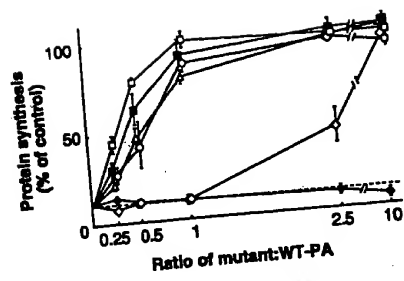


Figure 10

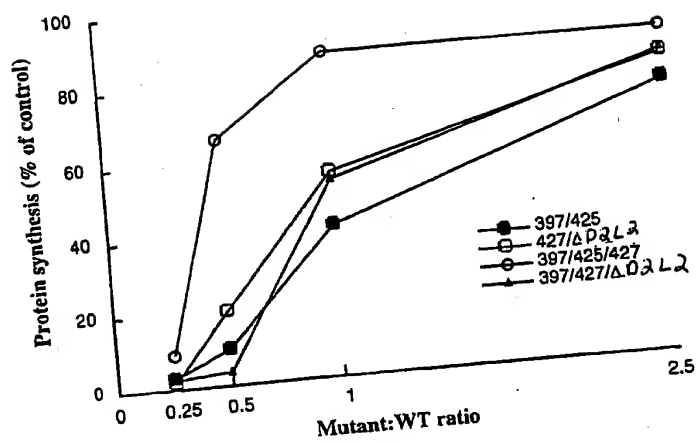
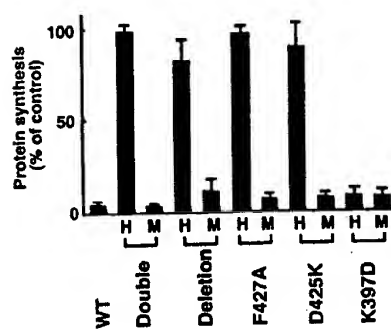


Figure 11



Protein synthesis (% of control)

Figure 12

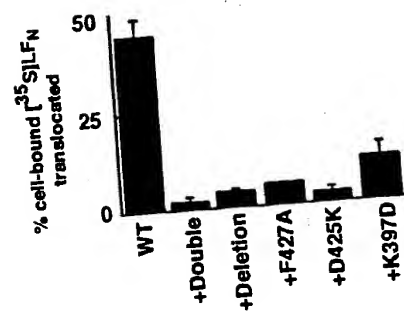


Figure 12

Figure 13: SEQ ID No.: 21

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 YWTDSQNKKEVISSDNLQLPELKQKS
 SNSRKKRSTSAGPTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIHEKKG
 LTKYKSSPEKWSTASDPYSDFEKT
 GRIDKNVSPEARHPLVAAPIVHVDMENILSKNEDQSTQNTDSETRTISKNTSTS
 RTHTSEVHGNAEVHASFFDIGGSV
 SAGFSNSNSSTVAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIY
 NVLPTTSLVLGKNQTLATIKAKENQ
 LSQILAPNNYPSKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLDTDQV
 YGNIATYNFENGVRVVDTGSNWSEV
 LPQIQETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPN
 GNLQYQGKDITEFDNFDDQTSQ
 NIKNQLAELNATNIYTVLDKIKLNAKMNIIRDKRFHYDRNNIAVGADESVVKEA
 HREVINSSTEGLLLNDKDIRKILS
 GYVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLPLYISNPYKV
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 IKKILIFSCKGYEIGZ

TC1050" 00001050

Figure 14

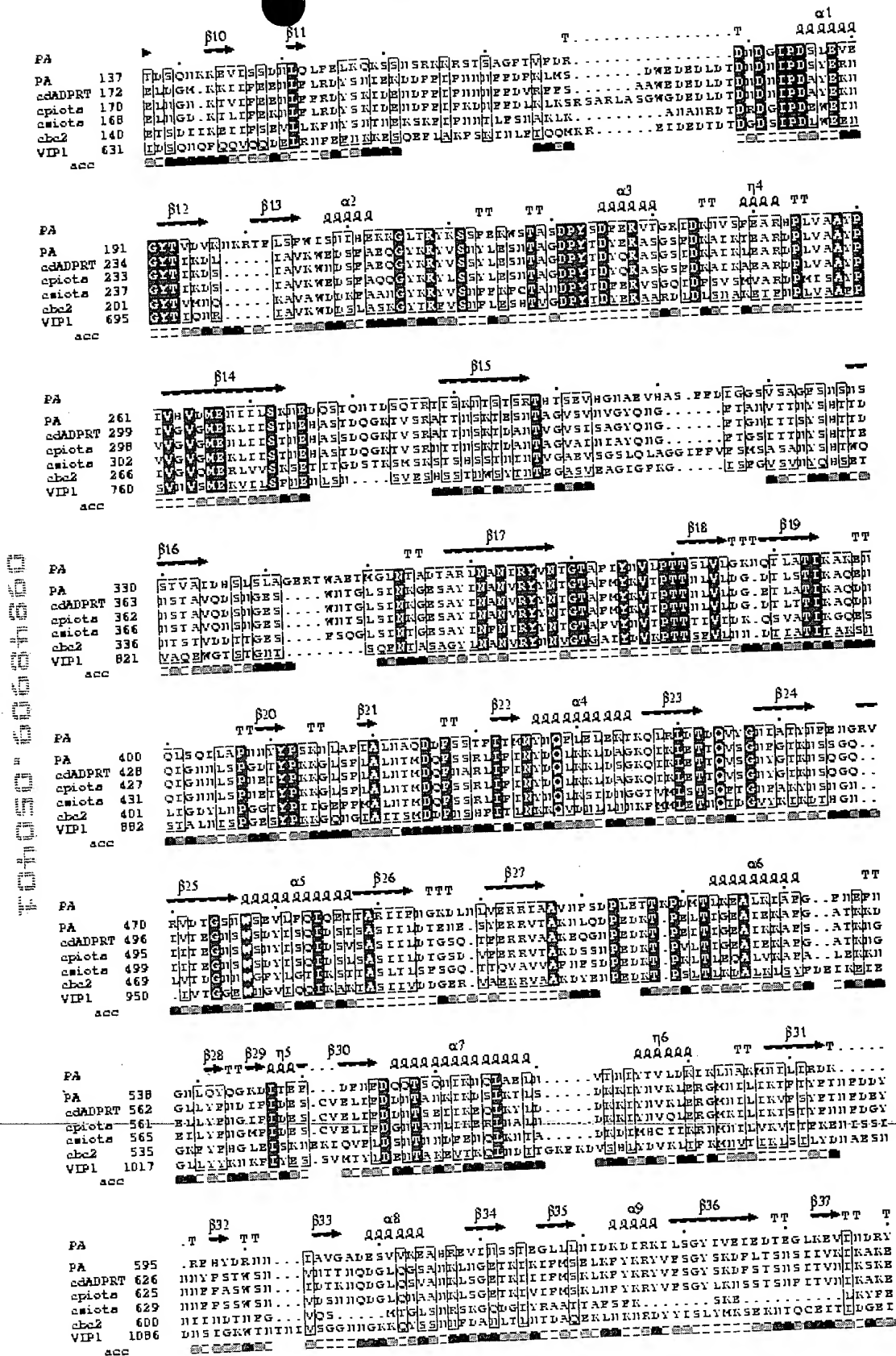
Figure 14: SEQ ID No.: 22

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CATCGGAAAACCAATATTTTCAATCTGCTATTTGGTCAGGATTTATCAAAGTT
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ACTTCCGCTGATAATCATGTAACAATGTGGGTAGATGACCAAGAAGTGATTA
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CCTACTGAAAAAGGATTGGATTTCAAGT
TGTAAGGACCGATTCTCAAATAAAAAAGAGTATTTCTAGTGATAACTT
ACAATTGCCAGAATTAACAAAATCT
TCGAACTCAAGAAAAAGCGAAGTACAAGTGCTGGACCTACGGTTCCAGACC
GTGACAATGATGGAATCCCTGATTCATT
AGAGGTAGAAGGATATACGGTTGATGTCAAAAATAAAAGAACTTTTCTTTCA
CCATGGATTTCTAATATTCATGAAAAGA
AAGGATTAACCAAATATAAATCATCTCCTGAAAAATGGAGCACGGCTTCTGA
TCCGTACAGTGATTTGAAAAGGTTACA
GGACGGATTGATAAGAATGTATCACCAGAGGCAAGACACCCCTTGTGGCAG
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GAAACGAGAACAATAAGTAAAAATACTT
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TCTGCAGGATTTAGTAATTCGAATTCAGTACGGTCGCAATTGATCATTCACT
ATCTCTAGCAGGGGAAAGAAGTTGGC
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AGATATGTAAATACTGGGACGGCTCCAA
TCTACAACGTGTTACCAACGACTTCGTTAGTGTTAGGAAAAATCAAACACT
CGCGACAATTAAAGCTAAGGAAAACCAA
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CGAAACAATTAAGATTAGATACGGATC
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AAATCTGGTAGAAAGCGGATAGCGGC
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GAAGCCCTTAAATAGCATTGATTGA
ACGAACCGAATGGAACTTACAATATCAAGGGAAAGACATAACCGAATTG
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AATATCAAGAATCAGTTAGCGGAATTAACGCAACTAACATATATACTGTAT
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GAATATTTTAATAAGAGATAAACGTTTTTCATTATGATAGAAATAACATAGCA
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AGGCTCATAGAGAAGTAATTAATTCGTCAACAGAGGGATTATTGTAAATAT
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GAGAATGGGGATACTAGTACCAACGGG
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60631860

Figure 15



[illegible][illegible]

PA
cdADPRT
apiots
cuiots
cbz2
VIP1

KKRKEGK LPMVSKKLOVVTIKI VLLSTVPSI SLLNNEVIKAEQLNINSQSKYTNLQNLKITDKVEDEKEDK

PA
cdADPRT
cpiots
csiots
cbc2
VIP1

.....
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PA
cdADPRT
cpiots
cmiots
cbcZ
VIP1

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PA
cdADPRT
cpiota
cmiota
cbc2
VIP1

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PA
cdADPR
apiot
amiot
cbc2
VIP1

.....
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PA
cdADPRT
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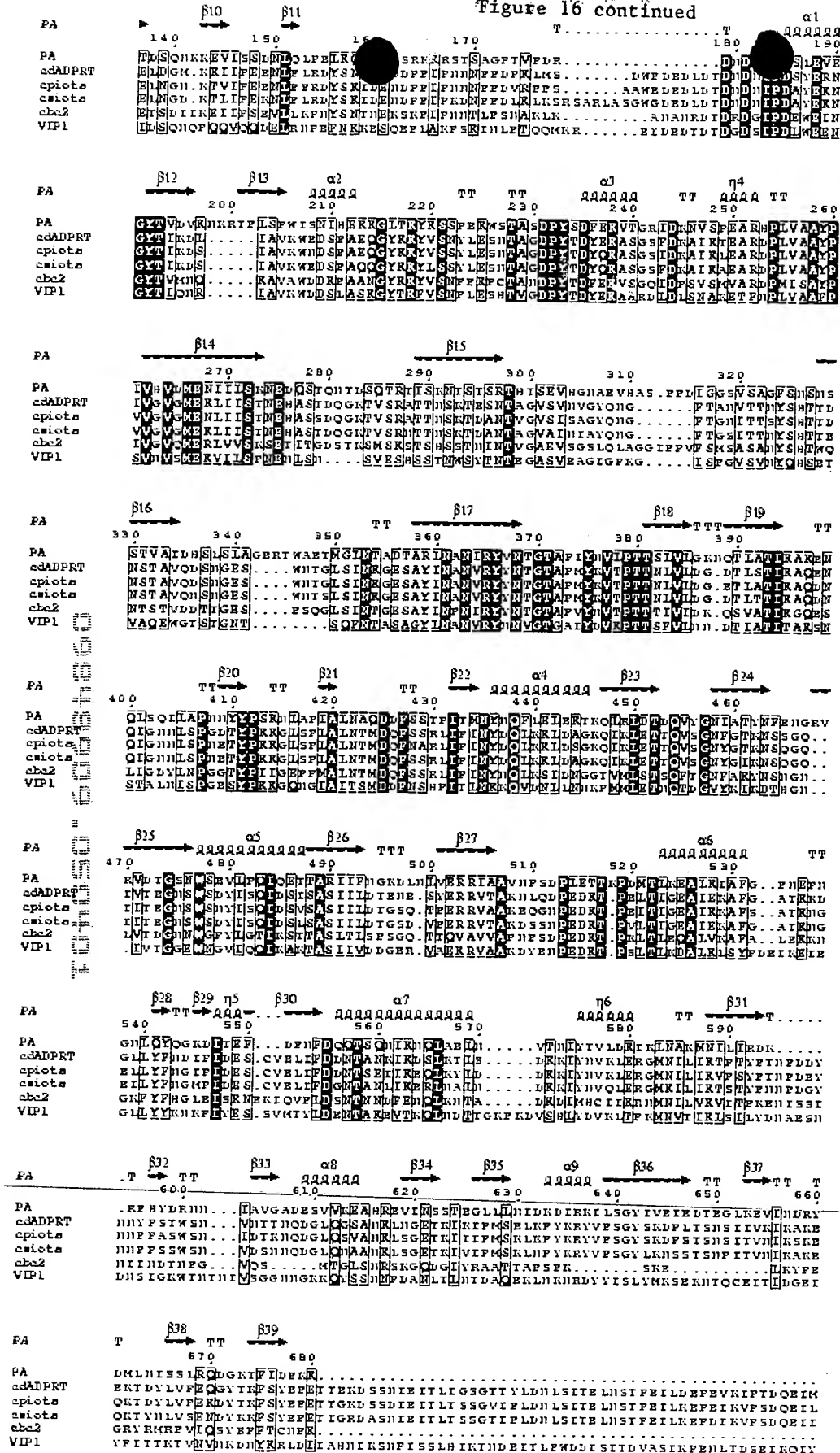
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epiota
siota
sh2
VIP1

.....MLVSRF
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$\beta 1$ $\beta 2$ $\eta 1$ $\eta 2$ $\beta 3$
 PA 10 20 30 40 50 60 70
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 ccdADPRT SIKRIRLVNVEDL LFNPNSSGLGLGYFFSPDLNHPDLNLSLAPLKLKGLFFSKKPKVRLIKLSSKSPVRSFSSGLPK
 cpiota TLNQKELTETNEPILSLSNGLMGYPFADLHBPDLNLELAPLKLKGLFFSKKPKVRLITEEDLSKSSINSTGLPK
 csiota LIIQKELMTETNEKTVLSNGLMGYPFADLHBPDLNLELAPLKLKGLFFSKKPKVRLITEEDLTHIKSSINSTGLPK
 vbc2 QELSVKSNRNKILFTINLGLGYFFSPDLPFNLHLILSPFTLGLGKFFSKKPKVRLITSLGL..NLIKSSAKLGLPK
 VIP1 QKISITLGLGKCKKRLKGLGYFFSPDKLPSLHLELAPLRLSTLGLGKFFSKKPKVRLITGLLKKQGLVSSINSTGLPK

[illegible]

Figure 16 continued



PA β40 η?
TT AAA
690 700 710 720
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 cpiota DANKIYFADLKLITITGHTYID...APTQTHKEALDYIQRYRVEATLQYSGF...IGTKDKERINYLGDP
 csiota DANKIYFADLSEHPSITGHTYID...APTQTHKEALDYIQRYRVEATLQYSGF...IGTKDKERINYLGDP
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 VIP1 SRYGIRLEHGLILDKGGGTHYGEFINDEASPNIFFLQHYVTKYZVTYSSSELGFNMSDTLESDRIYKLGITK

PA β41 α10
TT AAA
730
 PAIKKILDESKRGYETG.....
 cdADPRT HQPKINYYVHLRSYFTGGEDIMTYKKLRITAYITPDRELLVLVLD
 cpiota HQPKINYYVHLRSYFTGGEDIMTYKKLRITAYITPDRELLVLVLD
 csiota HQPKINYYVHLRSYFTGGEDIMTYKKLRITAYITPDRELLVLVLD
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Figure 16 continued

F01050"00051300